



# Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32263

Entry Year 2016

Acreage: 1290.21000000

County Marquette

Management Area: Chain Lakes Moraine

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**Revision Date:** 2014-09-18

**Stand Examiner:** Tom Seablom

**Legal Description:**

T45N R27W Sec 22 and 27

**Identified Planning Goals:**

This compartment is part of the Chain Lakes Moraine Management Area as defined in the Regional State Forest Management Plan. Vegetative management in the Chain Lake management area (MA) will provide a variety of forest products; maintain or enhance wildlife habitat; protect areas with unique characteristics; and provide for forest based recreational uses. Timber management objectives include improving the age-class distribution of aspen, lowland conifer and lowland spruce/fir; maintaining the conifer component in northern hardwood stands; maintaining the presence of minor cover types on the landscape; and maintaining non-forest vegetation types.

**Soil and topography:**

Soils are predominantly Rubicon sand, and Carbondale and Tawas soils. There are some inclusions of the Sayner-Rubicon complex, primarily the hillier sections. The terrain is generally level. Relief exists in correspondence to the Sayner-Rubicon soil series.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:**

Ownership around the compartment is a mix of state and private. A large private holding, the Michigan Northwoods Club, is immediately to the north of the compartment. Smaller individual holdings are scattered throughout the remainder of the landscape. Land use is seasonal camps, primarily occupied for hunting and fishing. State land is multiple use, primarily timber production, hunting, and fishing.

**Unique Natural Features:**

No Unique Natural Features known.

**Archeological, Historical, and Cultural Features:**

No Archeological, Historical, or Cultural Features known.

**Special Management Designations or Considerations:**

None.

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:**

Compartment 263 is found within the Chain Lakes Moraine Management Area; on a Disintegration Moraine in Southwestern Marquette County. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. This management area offers opportunities to increase diversity and perhaps long-term oak sustainability through under planting white and red pine. Another priority is to maintain or increase wildlife corridors especially along riparian corridors. Wildlife management issues in the management area are: mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; coarse woody debris; and retention or development of large living and dead standing trees (for cavities). This management area represents approximately ¼ of the oak resource on WUP state forest.

The following have been identified as featured species for Chain Lakes Management Area: black bear, gray jay, pileated woodpecker, Northern goshawk, red crossbill.

**Mineral Resource and Development Concerns and/or Restrictions**

Sections 22 and 27, T45N-R27W, Marquette County

Surface sediments consist of coarse-textured glacial till. The glacial drift thickness varies between 50 and 100 feet. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. This rock could be used as a building or dimension stone. A gravel pit is located to the west and potential should be good. Abandoned iron mines are located nine miles to

the east. Section 22 was previously leased for metallic exploration. There is no economic oil and gas production in the UP.

**Vehicle Access:**

There is very good access to the majority of this compartment. Main roads are the Charlie Lakes Road and Kates Grade. Secondary roads branch off of those which provide access to the south and northeast parts of the compartment. Access to the northwest corner of the compartment is off of Co. Rd. PPZ, which branches off of the Bryan Creek Road. From here there are closed roads that provide access.

**Survey Needs:**

None.

**Recreational Facilities and Opportunities:**

None exist and no opportunities.

**Fire Protection:**

This compartment has good access and water sources for fire needs. There is very little fire prone conifer in and around the compartment.

**Additional Compartment Information:**

The abandoned ELF ROW traverses this compartment as well as several old logging railroads.

**The following reports from the Inventory are attached:**

- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

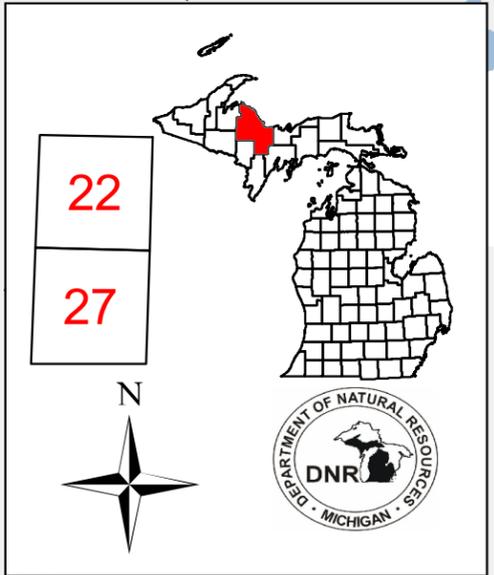
**The following information is displayed, where pertinent, on the attached compartment maps:**

- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatment Map

Compartment: 263  
 T45N R27W Sec. 22,27  
 County: Marquette  
 Unit: Gwinn  
 Management Area: Chain Lakes Moraine  
 YOE: 2016  
 Acres: 1,287 GIS Calculated  
 Examiner: Thomas Seablom  
 Map Revised: 08/13/2014  
 Map Phase: Pre-Review

**Stand #**  
 23  
**Stocking Density**  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**



**Legend**

- ⊕ Remonumented Section Corners
- Miris Corners
- ◆ PLSS Corner
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- == Gravel Roads
- - - Poor Dirt Roads
- - - County Poor Dirt Roads
- ⋯ Trail (Non-Recreation)
- ⊗ Gate
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

**Treatments**

- Clearcut (w/Reserves, Patch/Strip)
- ▤ Seed Tree (w/Reserves)
- ▥ Shelter Wood (w/Reserves)
- ▧ Regeneration Survey

**Forest Stands**

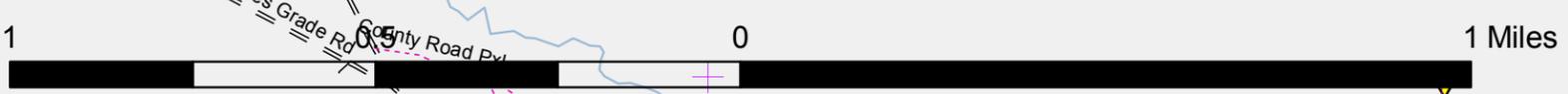
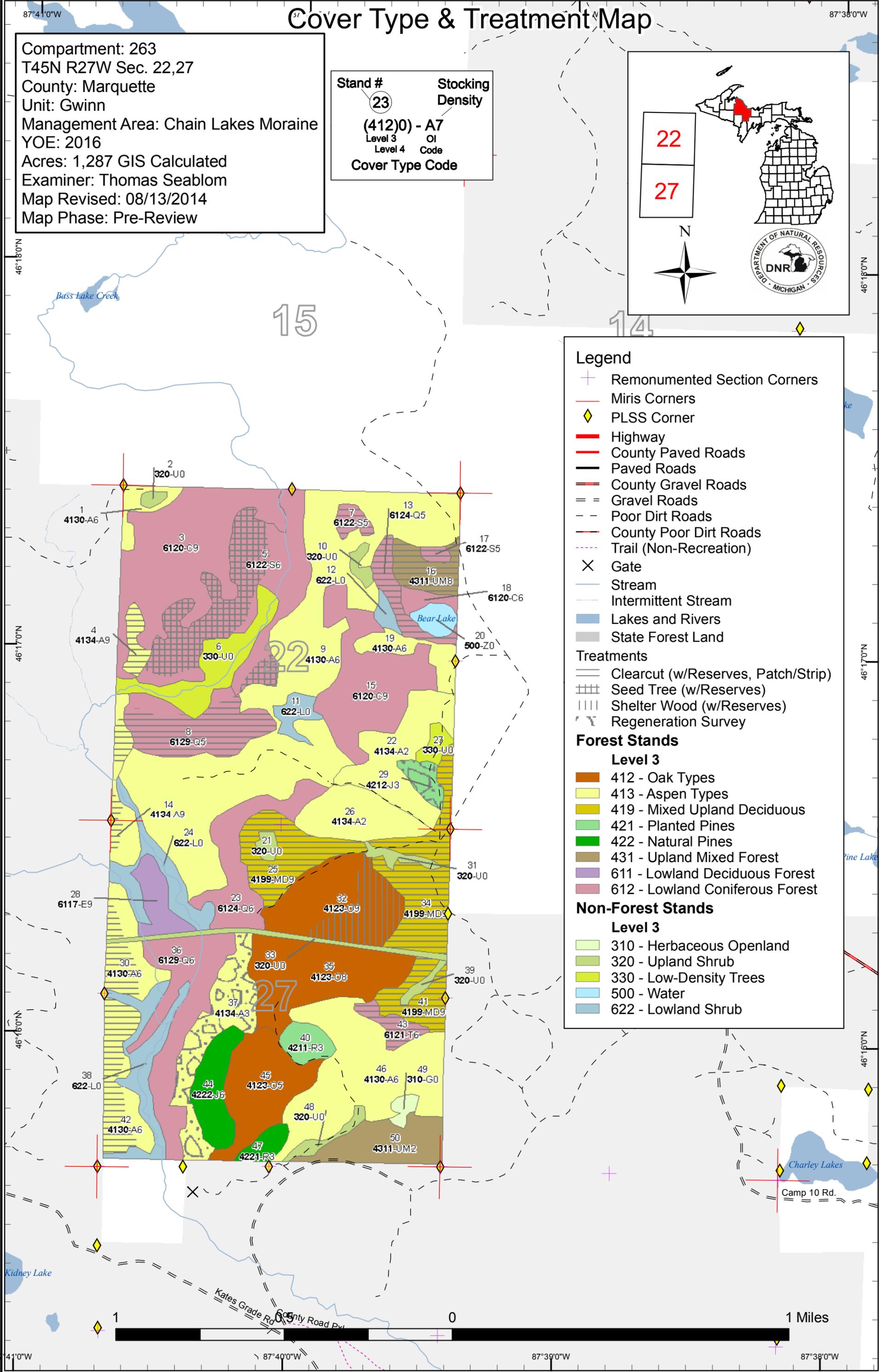
**Level 3**

- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

**Non-Forest Stands**

**Level 3**

- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub

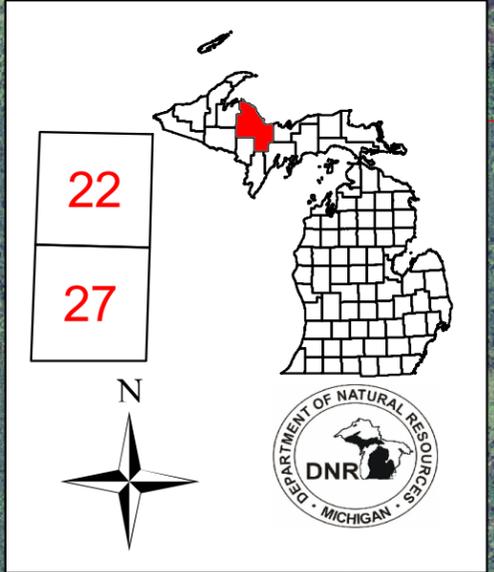


87°41'0"W 87°40'0"W 87°39'0"W 87°38'0"W

# Stand Boundary Map

Compartment: 263  
 T45N R27W Sec. 22,27  
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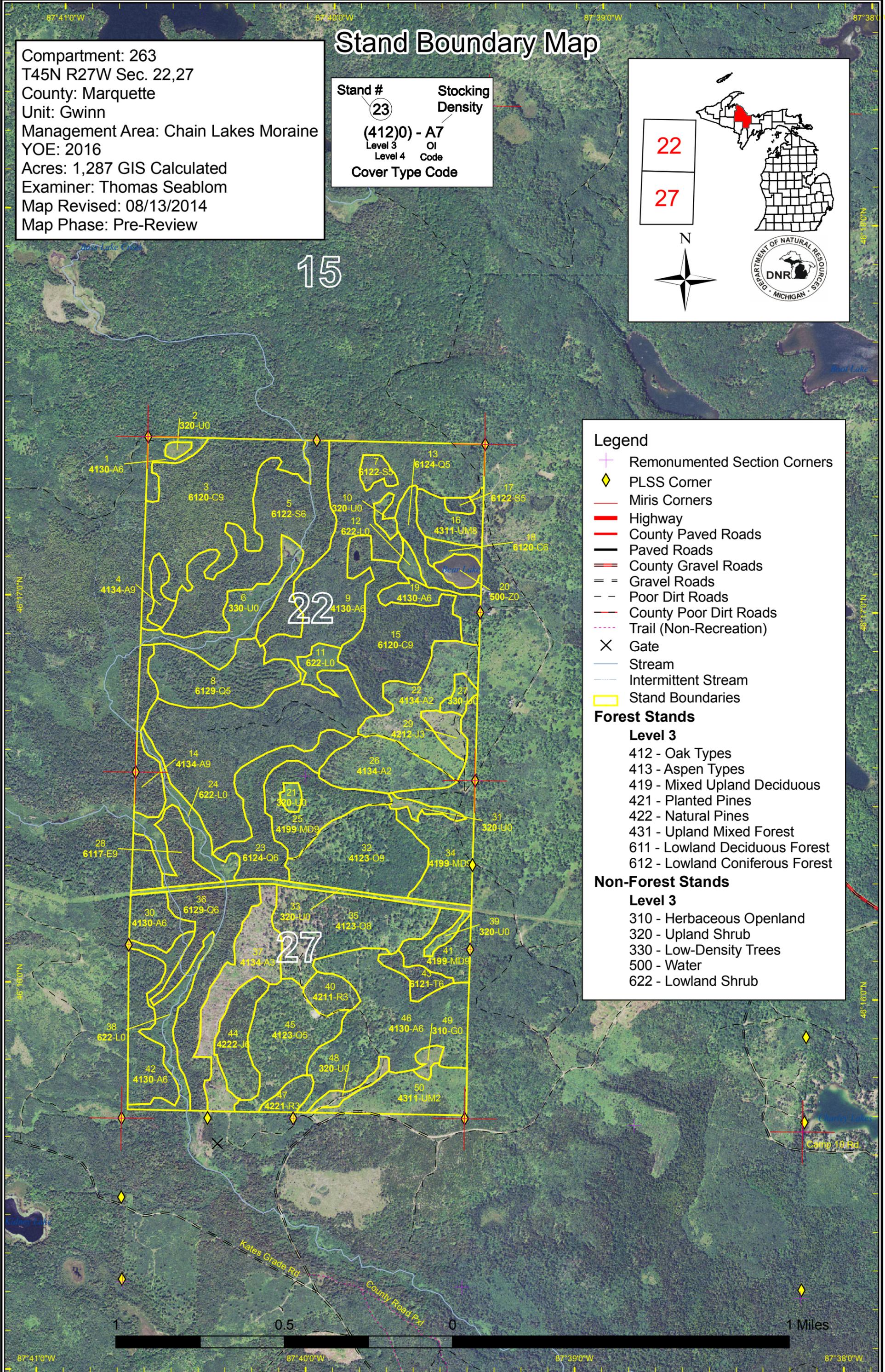
15

22

27

## Legend

- Remonumented Section Corners
  - PLSS Corner
  - Miris Corners
  - Highway
  - County Paved Roads
  - Paved Roads
  - County Gravel Roads
  - Gravel Roads
  - Poor Dirt Roads
  - County Poor Dirt Roads
  - Trail (Non-Recreation)
  - Gate
  - Stream
  - Intermittent Stream
  - Stand Boundaries
- Forest Stands**
- Level 3**
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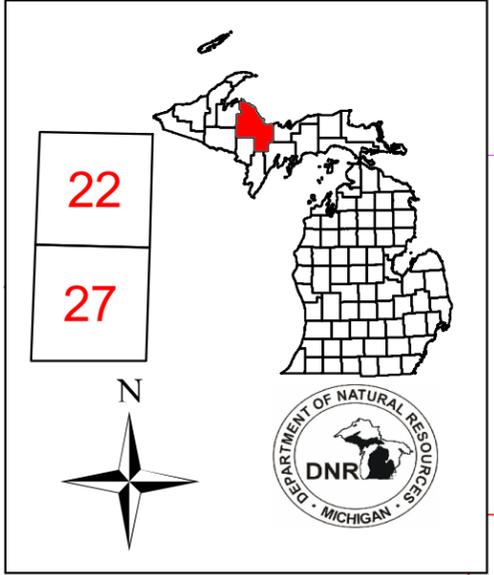
87°41'0"W

# Special Conservation Areas & Site Conditions Map

46°19'0"N

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 Map Revised: 08/13/2014  
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**Stand #**  
 23  
**Stocking Density**  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**



## Legend

- Miris Corners
- Stand Boundaries
- ✦ Remonumented Section Corners
- Reviewable SCAs**
- ▨ Proposed SCA
- ▩ SCA Removal
- Site Condition Available**
- ▨ Available w/ Constraints (Factor - Number)
- ▩ Unavailable (Factor - Number)
- Site Condition Type**
- Available Factors W/ Constraints
- 5B: Retention for regeneration purposes
- Unavailable Factors
- 3J: Water quality / BMPs (stream, river, or lake)
- Special Conservation Areas**
- Cold Water Streams
- ▨ High Priority Trout Stream Buffer

46°18'0"N

46°17'0"N

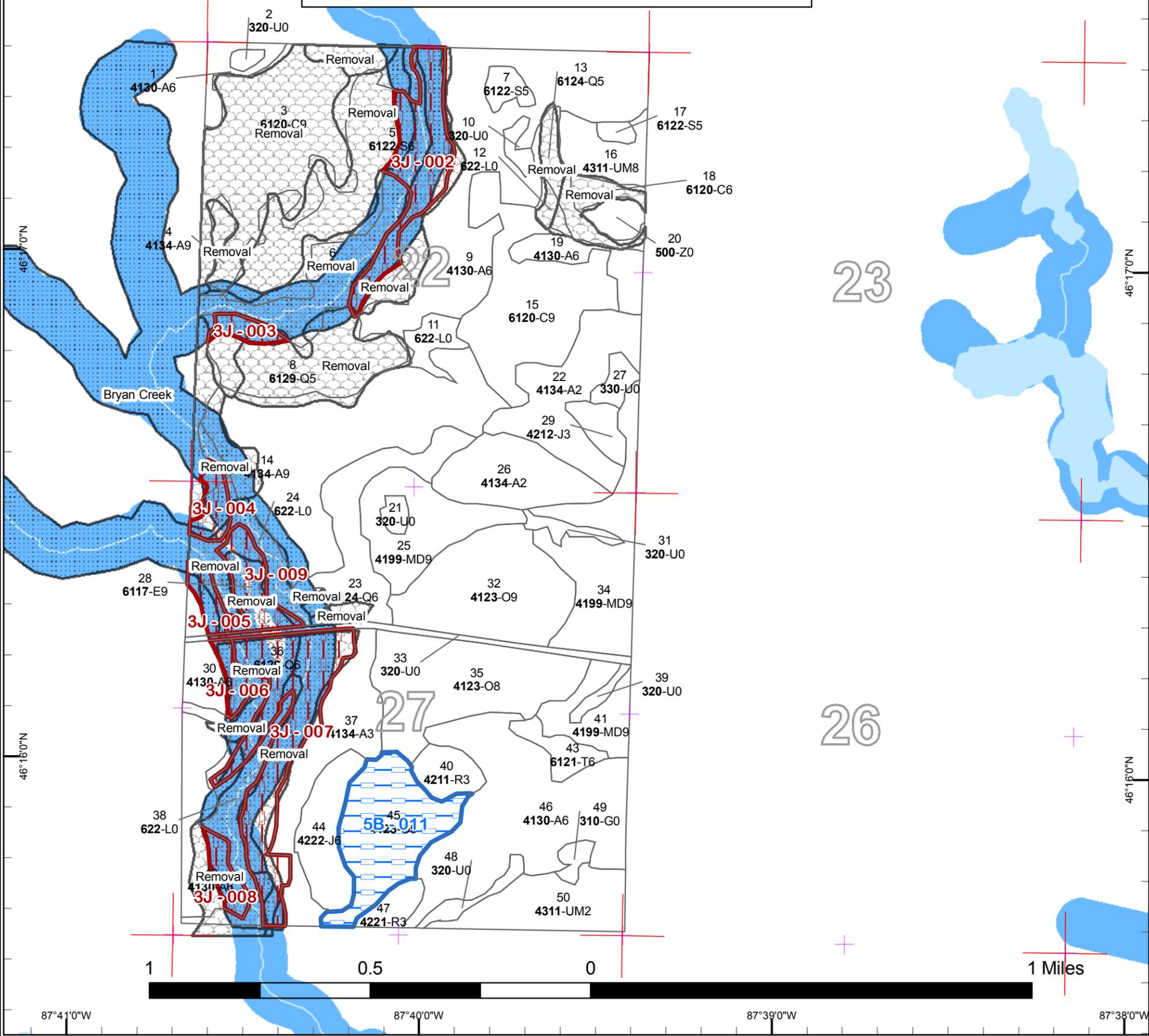
46°16'0"N

87°41'0"W

87°40'0"W

87°39'0"W

87°38'0"W



14

23

26

1 Miles

**Recreational Facilities and Opportunities:**

None exist and no opportunities.

**Fire Protection:**

This compartment has good access and water sources for fire needs. There is very little fire prone conifer in and around the compartment.

**Additional Compartment Information:**

The abandoned ELF ROW traverses this compartment as well as several old logging railroads.

**The following reports from the Inventory are attached:**

- Total Acres by Cover Type and Age Class**
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	Age Class													Total	
	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +		Uneven Age
Aspen	73	107	8	203	0	50	0	16	6	0	0	0	0	0	463
Cedar	0	0	0	0	0	0	0	0	0	0	136	5	0	0	141
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Jack Pine	7	0	0	21	0	0	0	0	0	0	0	0	0	0	28
Low-Density Trees	32	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Lowland Conifers	0	0	0	33	0	0	0	12	88	0	0	0	0	0	132
Lowland Deciduous	0	0	0	0	0	0	0	0	13	0	0	0	0	0	13
Lowland Shrub	54	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	7	80	0	0	0	0	88
Mixed Upland Deciduous	0	0	0	0	0	0	0	89	0	0	0	0	0	0	89
Oak	0	0	0	0	0	0	0	104	40	0	0	0	0	0	143
Red Pine	0	16	0	0	0	0	0	0	0	0	0	0	0	0	16
Tamarack	0	0	0	0	0	0	0	0	8	0	0	0	0	0	8
Upland Mixed Forest	27	0	0	0	0	0	0	0	0	15	0	0	0	0	42
Upland Shrub	29	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
<b>Total</b>	<b>232</b>	<b>123</b>	<b>8</b>	<b>256</b>	<b>0</b>	<b>50</b>	<b>0</b>	<b>220</b>	<b>162</b>	<b>95</b>	<b>136</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>1287</b>



## Report 2 – Proposed Treatment Summaries

**Gwinn Mgt. Unit**  
**Year of Entry 2016**

**Compartment 263**  
**Total Compartment Acres: 1,287**

### Acres by Treatment Type

Commercial Harvest - 375    Tree Planting - 103    Other - 3  
 Habitat Cut - 0    Opening Maintenance - 5

### Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
	2	0	0	0	0	0	0	2
<b>Aspen Types</b>	138	0	0	0	0	0	0	138
<b>Lowland Coniferous Forest</b>	61	0	46	0	0	0	0	107
<b>Mixed Upland Deciduous</b>	89	0	0	0	0	0	0	89
<b>Oak Types</b>	0	0	0	24	0	0	0	24
<b>Upland Mixed Forest</b>	15	0	0	0	0	0	0	15
<b>Total</b>	<b>304</b>	<b>0</b>	<b>46</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>375</b>



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
	<b>32263_OutOfY OE-Cut</b>	2.3					Harvest	Clearcut with Reserves	4130 - Aspen	Fld. Tr. Bdy.
<u>Prescription</u> Cut all aspen, paper birch, balsam fir.										
<u>Specs:</u>										
<u>Other</u> Leave buffer along Bryan Creek										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2011										
<b>4</b>	<b>32263004-Cut</b>	6.4	4134 - Aspen, Spruce/Fir	High Density Log	86		Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<u>Prescription</u> Clearcut, harvesting all aspen, birch, and maple, and all merchantable spruce-fir.										
<u>Specs:</u>										
<u>Other</u> Difficult to access this stand.										
<u>Comments:</u>										
<u>Next</u> Regen survey as per work instructions.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
<b>5</b>	<b>32263005-Cut</b>	42.2	6122 - Black Spruce	High Density Pole	91		Harvest	Seed Tree with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<u>Prescription</u> Seed tree harvest leaving approx. 10-15 black spruce per acre. Cut all other trees greater than 4 inches dbh except cedar. Incorporate mature tamarack into the red line.										
<u>Specs:</u>										
<u>Other</u> Buffer creek accordingly. Pocket of mistletoe in northeast corner of stand. Higher cedar component on west side of creek.										
<u>Comments:</u>										
<u>Next</u> Regen check as per work instructions.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
<b>5</b>	<b>32263005- Cut_small_sm all_exp-0</b>	4.2	6122 - Black Spruce	High Density Pole	91		Harvest	Seed Tree with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<u>Prescription</u> Seed tree harvest leaving approx. 10-15 black spruce per acre. Cut all other trees greater than 4 inches dbh.										
<u>Specs:</u>										
<u>Other</u> Buffer creek accordingly. Pocket of mistletoe in northeast corner of stand. Higher cedar component on west side of creek.										
<u>Comments:</u>										
<u>Next</u> Regen check as per work instructions.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5	32263005-Cut_small_sm all_exp-3	0.0	6122 - Black Spruce	High Density Pole	91		Harvest	Seed Tree with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<u>Prescription</u> Seed tree harvest leaving approx. 10-15 black spruce per acre. Cut all other trees greater than 4 inches dbh.										
<u>Specs:</u>										
<u>Other Comments:</u> Buffer creek accordingly. Pocket of mistletoe in northeast corner of stand. Higher cedar component on west side of creek.										
<u>Next Steps:</u> Regen check as per work instructions.										
<u>Proposed Start Date:</u> 10/01/2015										
7	32263007-Cut	5.0	6122 - Black Spruce	Medium Density Pole	84		Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<u>Prescription</u> Clearcut, harvesting all merchantable black spruce. Leave any cedar if present as well as tamarack.										
<u>Specs:</u>										
<u>Other Comments:</u> Most harvesting will be along the outer 2-3 chains of the stand. Smaller diameter trees occupy the middle of the stand.										
<u>Next Steps:</u> Regen check as per work instructions.										
<u>Proposed Start Date:</u> 10/01/2015										
8	32263008-Cut	33.7	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	80		Harvest	Clearcut with Reserves	6129 - Mixed Coniferous Lowland Forest	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves. On 1/2 the stand cut all merchantable trees. On the remaining 1/2 cut all merchantable trees except cedar.										
<u>Specs:</u>										
<u>Other Comments:</u> Winter harvest as site is quite wet, maybe too wet. Stand appears to have been strip cut in the past. Strips are now balsam fir, black ash, and tamarack.										
<u>Next Steps:</u> Regen survey as per work instructions.										
<u>Proposed Start Date:</u> 10/01/2015										
9	32263009-Cut	95.2	4130 - Aspen	High Density Pole	36		Harvest	Clearcut	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Clearcut, harvesting all trees regardless of merchantability. Retain any oak, if present.										
<u>Specs:</u>										
<u>Other Comments:</u> Allow chipping due to small diameter material. Minimal retention due to only harvesting the south part of the stand.										
<u>Next Steps:</u> Regen survey as per work instructions.										
<u>Proposed Start Date:</u> 10/01/2015										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
13	32263013-Cut	11.9	6124 - Lowland Spruce-Fir	Medium Density Pole	77		Harvest	Clearcut	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal

Prescription Clearcut, harvesting all trees over 6-inch stump diameter. Retain some mature white spruce and tamarack.

Specs:

Other Stand gets more wet as you approach the west edge.

Comments:

Next Regen as per work instructions.

Steps:

Proposed

Start Date: 10/01/2015

14	32263014- Cut_small	4.3	4134 - Aspen, Spruce/Fir	High Density Log	77		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
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Prescription Stand currently on contract. 32-111-12-01

Specs:

Other Stand was prescribed last entry to be treated with compartment 266 to the west.

Comments:

Next Regen survey as per work instructions.

Steps:

Proposed

Start Date: 10/01/2012

16	32263016-Cut	14.9	4311 - Pine, Aspen Mix	Medium Density Log	92	111-140	Harvest	Clearcut with Reserves	4211 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Clearcut, leaving 8-10 trees per acre being composed of red pine over 22", white pine over 10" dbh, and a mix of existing mature trees. Cut all other trees regardless of merchantability.

Specs:

Other Anchor chain following harvest.

Comments:

Next Regen survey as per work instructions.

Steps:

Proposed

Start Date: 10/01/2015

17	32263017-Cut	2.4	6122 - Black Spruce	Medium Density Pole	84		Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
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Prescription Clearcut all merchantable stems. No retention due to small stand size.

Specs:

Other

Comments:

Next Regen survey as per work instructions.

Steps:

Proposed

Start Date: 10/01/2015



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
25	32263025-Cut	30.2	4199 - Other Mixed Upland Deciduous	High Density Log	75		Harvest	Clearcut with Reserves	4211 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Utilizing the funding source boundary, on the Tax Reverted portion: Clearcut leaving 3 red oak per acre where the exist (primarily east end of stand).Herbicide, trench, and plant red pine. Retention will be in patches located along the northwest and west edge of stand and only 3%. On the State Game Fund portion, clearcut stand leaving any oak. Retention will be that aspen on the north end of the stand that is below the top of the hill.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Regen survey as per work instructions.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
30	32263030-Cut	11.0	4130 - Aspen	High Density Pole	50		Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut harvesting all merchantable stems.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Hold stand and treat with adjacent compartment 264 in 2019. Retention will be along the east edge of stand. Should be monitored for SBW.</p> <p><u>Next Steps:</u> Regen survey as per work instructions.</p> <p><u>Proposed Start Date:</u> 10/01/2019</p>										
32	32263032-Cut_small	24.1	4123 - Red Oak	High Density Log	75	111-140	Harvest	Shelterwood	4123 - Red Oak	Cmpt. Review Proposal
<p><u>Prescription</u> Shelterwood harvest, cutting all species regardless of merchantability except oak. With the oak, cut leaving 40 ft/ac. Strive to leave large canopy oak with healthy crowns.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Anchor chain following harvest.</p> <p><u>Next Steps:</u> Regen survey as per work instructions.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										
34	32263034-Cut	41.7	4199 - Other Mixed Upland Deciduous	High Density Log	75		Harvest	Clearcut with Reserves	4211 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut leaving 3 red oak per acre (as per WLD) where possible. Strive to select large crown trees.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Herbicide (2 site prep applications), trench, and plant red pine. Retention should be upwards of 5 % and located in the north/northeast part of the stand.</p> <p><u>Next Steps:</u> Regen survey as per work instructions.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p>										



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
41	32263041-Cut	16.6	4199 - Other Mixed Upland Deciduous	High Density Log	70		Harvest	Clearcut with Reserves	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Clearcut all trees, except leaving unmerchantable black spruce in small inclusion in SW corner of stand.										
<u>Specs:</u>										
<u>Other Comments:</u> Herbicide, trench, and plant red pine. Retention should be left in vicinity of black spruce inclusion. Retain patches of mature aspen that occurs near the south end of the stand where it borders the tamarack.										
<u>Next Steps:</u> Regen survey as per work instructions.										
<u>Proposed Start Date:</u> 10/01/2015										
42	32263042-Cut	20.9	4130 - Aspen	High Density Pole	50		Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<u>Prescription</u> Clearcut all trees over 2" dbh. Leave patches containing 15+ trees thta include mature spruce (as per WLD). Leave appropriate buffer along creek.										
<u>Specs:</u>										
<u>Other Comments:</u> Retention will be buffer along east edge of stand. Hold stand and cut with adjacent compartment 264 in 2019.										
<u>Next Steps:</u> Regen survey as per work instructions.										
<u>Proposed Start Date:</u> 10/01/2019										
43	32263043-Cut	7.8	6121 - Tamarack	High Density Pole	87		Harvest	Clearcut	6121 - Tamarack	Cmpt. Review Proposal
<u>Prescription</u> Clearcut all trees 4" and greater.										
<u>Specs:</u>										
<u>Other Comments:</u> Use the sale boundary to retain some mature tamarack on the south edge of the stand. Stand does get more wet as you go to the south.										
<u>Next Steps:</u> Regen survey as per work instructions.										
<u>Proposed Start Date:</u> 10/01/2015										
48	NF_32263048-NonFor	4.7	320 - Upland Shrub				Non-Forest Management	Other - Specify	320 - Upland Shrub	Cmpt. Review Proposal
<u>Prescription</u> Chainsaw work and planting of hard/soft mast trees/shrubs to benefit featured species.										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> Unspecified										
49	NF_32263049-Other	3.3	310 - Herbaceous Openland				Other	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
<u>Prescription</u> Chainsaw work and planting of hard/soft mast trees/shrubs to benefit featured species.										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> Unspecified										

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
29 32263029-Survey	7.1	42120 - Planted Jack Pine	High Density Sapling	3		Regeneration Survey	Artificial Regeneration (3yr)	4212 - Planted Jack Pine	Cmpt. Review Proposal

Prescription Regen survey occurred in 2014. Next one will be 2016.

Specs:

Other Herbicide release if necessary.

Comments:

Next Regen survey as per work instructions.

Steps:

Proposed

Start Date: 10/01/2016

37 32263037-Survey	35.6	4134 - Aspen, Spruce/Fir	High Density Sapling	4		Regeneration Survey	Intermediate Survey (natural regen)	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
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Prescription

Specs:

Other

Comments:

Next Regen survey in 2018, particularly the northern portion.

Steps:

Proposed

Start Date: 10/01/2018

**Total Treatment  
Acreage Proposed: 425.7**



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Type! #Type!

Prescription  
Specs:

Other  
Comment:

Next  
Steps:

Proposed  
Start Date: #Type!

Limiting Factor

**Total Treatment  
Acreage Proposed: 0.0**

## Report 5 – Site Conditions

Gwinn Mgt. Unit

Compartment 263

Thomas Seablom : Examiner

Year of Entry 2016

### Availability for Management

Total Acres	Acres		Dominant Site Conditions	No	5B	3J
	Available	Not Available				
462	439	23	Aspen	439		23
141	141		Cedar	141		
28	28		Jack Pine	28		
132	80	52	Lowland Conifers	80		52
13		13	Lowland Deciduous			13
88	60	28	Lowland Spruce/Fir	60		28
88	88		Mixed Upland Deciduous	88		
143	143		Oak	104	40	
16	16		Red Pine	16		
8	8		Tamarack	8		
42	42		Upland Mixed Forest	42		
1,163	1,046	117	Total Forested Acres	1,006	40	117
	90%	10%	Relative Percent			

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002	Not Available	3J: Water quality / BMPs (stream, river, or lake)	28				
<b>Comments:</b> 300 ft. buffer on North Branch Creek.							
003	Not Available	3J: Water quality / BMPs (stream, river, or lake)	5				
<b>Comments:</b> 300 ft buffer on North Branch Creek.							
004	Not Available	3J: Water quality / BMPs (stream, river, or lake)	7				
<b>Comments:</b> 300 ft. buffer on Bryan and North Branch Creek.							

**Report 5 – Site Conditions**

Gwinn Mgt. Unit

Compartment 263

Thomas Seablom : Examiner

Year of Entry 2016

005	<b>Not Available</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	5
<b>Comments:</b> 300 ft. buffer on Bryan Creek.			
006	<b>Not Available</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6
<b>Comments:</b> 300 ft. buffer on Bryan Creek.			
007	<b>Not Available</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	48
<b>Comments:</b> 300 ft buffer on Bryan Creek.			
008	<b>Not Available</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6
<b>Comments:</b> 300 ft buffer on Bryan Creek.			
009	<b>Not Available</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	13
<b>Comments:</b> 300 ft buffer on Bryan and North Branch Creek.			
011	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	40
<b>Comments:</b> Stand is overstory oak with jack, red, and white pine in the understory.			



## Report 6 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
<b>Bryan Creek</b> <b>Comments</b> Buffer along Bryan Creek and it's tributaries.	Potential Old Growth		<b>SCA</b>	460.7
<b>Removal</b> <b>Comments</b> Not old growth	Potential Old Growth		<b>SCA Removal</b>	1.4
<b>Removal</b> <b>Comments</b> Not old growth.	Potential Old Growth		<b>SCA Removal</b>	3.2
<b>Removal</b> <b>Comments</b> Not old growth	Potential Old Growth		<b>SCA Removal</b>	3.5
<b>Removal</b> <b>Comments</b> Not old growth	Potential Old Growth		<b>SCA Removal</b>	6.3
<b>Removal</b> <b>Comments</b> Not old growth	Potential Old Growth		<b>SCA Removal</b>	6.5
<b>Removal</b> <b>Comments</b> Not old growth	Potential Old Growth		<b>SCA Removal</b>	6.7
<b>Removal</b> <b>Comments</b> Not old growth	Potential Old Growth		<b>SCA Removal</b>	10.6
<b>Removal</b> <b>Comments</b> Not old growth	Potential Old Growth		<b>SCA Removal</b>	11.7
<b>Removal</b> <b>Comments</b> Not old growth	Potential Old Growth		<b>SCA Removal</b>	17.5
<b>Removal</b> <b>Comments</b> Not old growth	Potential Old Growth		<b>SCA Removal</b>	21.6



## Report 6 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
<b>Removal</b> <b>Comments</b> Not old growth	Potential Old Growth		<b>SCA Removal</b>	24.6
<b>Removal</b> <b>Comments</b> Not old growth	Potential Old Growth		<b>SCA Removal</b>	27.2
<b>Removal</b> <b>Comments</b> Not old growth.	Potential Old Growth		<b>SCA Removal</b>	31.6
<b>Removal</b> <b>Comments</b> Not old growth	Potential Old Growth		<b>SCA Removal</b>	32.5
<b>Removal</b> <b>Comments</b> Not old growth	Potential Old Growth		<b>SCA Removal</b>	36.2
<b>Removal</b> <b>Comments</b> Not old growth	Potential Old Growth		<b>SCA Removal</b>	50.1
<b>Removal</b> <b>Comments</b> Not old growth	Potential Old Growth		<b>SCA Removal</b>	50.1
<b>Removal</b> <b>Comments</b> Not old growth	Potential Old Growth		<b>SCA Removal</b>	65.5



## Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
 HCVA = High Conservation Value Area  
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	High Density Pole	7.6	25		Was commercially cut in 1989 by Jay Mattila of Republic with the adjacent timber to the west in cmpt 266, permit #30-88.
3	6120 - Lowland Cedar	High Density Log	80.6	100		Stand is the same covertype as stand (cedar stand) in adjacent compartment 266. Area is heavily used by deer during the early winter months. North end has a small patch of high ground with white pine on it. This stand was previously listed as POG for influence on Bryan Creek.
4	4134 - Aspen, Spruce/Fir	High Density Log	6.4	86		Previously typed out as a POG stand. Old notes state that fir has essentially fallen out and young balsam is regenerating in the understory.
5	6122 - Black Spruce	High Density Pole	80.3	91		Northeast part of stand has some high ground w/aspen which bleeds out in to north part of stand. Overall health is good, some mistletoe in northeast corner. Balsam saplings in open areas, especially where the aspen is. West side/southwest end of stand has more cedar in it. Stand was previously listed as POG for the influence on Bryan Creek. West 1/2 of stand may be more difficult to harvest.
7	6122 - Black Spruce	Medium Density Pole	5.0	84		Decent size spruce along the edge, grades into bog as you move to center of stand. Smaller diameter trees as one approaches the center.
8	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	39.8	80		Stand must have been strip cut in the past. Remaining strips are tamarack and cedar with some black spruce, balsam, balm, and white birch. Tamarack is 6-7 sticks in good shape. Some black ash in the strips as well. If acres are needed, stand could be cut though it is wet.
9	4130 - Aspen	High Density Pole	189.6	36		Was commercially cut in 1977 by Ed Havel from Big Bay for Escanaba Paper Co. (Mead) Permit # 20-73A, "Bear Lake Block". This was a large sale, approx 210 acres. Most big tooth is in the northern part of the stand. Soil is drier in this portion of the stand. Evidence of old grade traverses stand in an east-west direction in the northern 1/4 of the stand. More balsam is present in the lower 1/2 of the stand.
13	6124 - Lowland Spruce- Fir	Medium Density Pole	11.9	77		Mix of spruce and tamarack. Tamarack heavy around lake. Balsam in gaps.
14	4134 - Aspen, Spruce/Fir	High Density Log	15.9	77		Stand listed as POG. OI comments note long term objective is to let succeed to spruce-fir-pine as the stand influence's North Branch Creek.
15	6120 - Lowland Cedar	High Density Log	55.5	100		Heavy to cedar logs. Tamarack on edge of stand.
16	4311 - Pine, Aspen Mix	Medium Density Log	14.9	92	111-140	90 rp, 30 rm, 20 pb, 50 fir. rp=21"
17	6122 - Black Spruce	Medium Density Pole	2.4	84		Small stand of black spruce. Old grade runs through stand. Better timber is on edge of stand and somewhat open in middle.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	6120 - Lowland Cedar	High Density Pole	5.1	115		Heavy cedar with balsam in understory.
19	4130 - Aspen	High Density Pole	13.1	36		Was commercially cut in 1977 by Ed Havel from Big Bay for Escanaba Paper Co. (Mead) Permit # 20-73A, "Bear Lake Block". This was a large sale, approx 210 acres.
22	4134 - Aspen, Spruce/Fir	Medium Density	37.5	6		Harvested (seed tree) in 2008: TS#108-06-01. Left oak and cherry along with birch seed trees. Aspen and red maple are regenerating in the stand along with some spruce and fir. Stocking here is medium and needs to be monitored. Areas that were heavier to birch have less stems/ac.
23	6124 - Lowland Spruce- Fir	High Density Pole	32.9	35		Mixed stand. Looks like it was hit by budworm during the 70's/80's outbreak or was cut in the 70's with the adjacent stands. Hold till next entry.
25	4199 - Other Mixed Upland Deciduous	High Density Log	30.2	75		Mixed stand of red maple, white birch, oak, aspen, and balsam fir. Oak is heavy as you move east in the stand. this portion should be where majority of oak is left.
26	4134 - Aspen, Spruce/Fir	Medium Density	29.1	14		2/11/14: Mixed stand of aspen, red maple, spruce-fir, and red pine. Red pine is seeding in on it's own. Was commercially cut in 1999 by Marvin Nelson Forest Prod., under permit #11-96-01, "Oak Shelterwood North Sale". Birch seed trees were marked with green paint to leave. Also all oak and red & white pine was left. In June of 2004, it seems red maple reproduction is the most prevalent, followed by aspen, fir, and some birch. Future stand will definitely be a mixture.
28	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	13.4	86		OI comments state POG and long term objective is to let stand succeed to spruce-fir-pine as it influence's North Branch and Bryan Creek.
29	42120 - Planted Jack Pine	High Density Sapling	7.1	3		Harvested in 2008: TS#108-06-01. Herbicide applied August 2009, trenched and direct seeded June 2010 FTP# 32-721, Regen survey from summer 2012 indicates approx. 800 tpa.
30	4130 - Aspen	High Density Pole	21.9	50		Schedule for treatment with the adjacent Cmpt 264 when ready to final harvest. This stand was included in a commercial harvest in 1963-64 made by Ellsworth Kroon ( father of Lloyd Kroon), permit #5/63A. This was a large sale of approx 280 acres, located in parts of four Sections (21,22,27;28). Spec included no cutting within 200 feet of the creek. 8/19/2014: Budworm is feeding in stand, most is in riparian areas where trees are exposed. Minor feeding on understory spruce/fir.
32	4123 - Red Oak	High Density Log	50.6	75	111-140	Had originally been two separate stands and now is only typed out as one. West half of stand was commercially cut in 1999 by Marvin Nelson Forest Prod, permit #11-96-01. Aspen, birch, and maple was cut while all oak was left per Wildlife input for mast production. Red & white pine and cherry was left as well. The east half was not harvested. After harvest this entry stands will be at about the same density.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
34	4199 - Other Mixed Upland Deciduous	High Density Log	41.7	75		Red maple/birch stand with scattered red oak. Patch of aspen here and there, mainly in north.
35	4123 - Red Oak	Medium Density Log	53.2	75	81-110	Previously had been two stands that were cut in two different entry periods (west 2010 TS#32-106-01 and east 2002 #32-124-01-01). All oak were left and only aspen, red maple, white birch and some spruce and fir were harvested. Canopy is all oak with some scattered red and white pine. Understory is aspen and red maple whips. Although the ages are different from east to west, stand will now be managed as one type. Oak coverage is heaviest in the center of the stand.
36	6129 - Mixed Coniferous Lowland Forest	High Density Pole	47.8	85		Stand is a buffer along Bryan Creek. Stand is upland along the eastern fringe and grades to lowland as the stand progresses to the west. 8+ stick tamarack. Evidence of budworm from last year. Heavy balsam understory in areas.
37	4134 - Aspen, Spruce/Fir	High Density Sapling	35.6	4		Stand was harvested in 2010 TS#32-130-06-01. South end of stand had originally been prescribed to convert to red pine, however it is primarily a hill side which prohibits any site prep activity. The remainder of the stand is relatively flat and operable, however the entire stand has regenerated to aspen, spruce, fir, and some jack pine. It was decided to accept this as the new stand as efforts to control aspen would have been futile.
40	42110 - Planted Red Pine	High Density Sapling	9.5	15		Stand planted in spring 1999 FTP#31-384. Red pine with a mix of balsam fir and red oak.
41	4199 - Other Mixed Upland Deciduous	High Density Log	16.6	70		Birch falling out. Balsam and white pine coming up in understory. Lycopodium ground cover. Handful of red pine trees in the north end, used them for SI. There is a small black spruce inclusion in the southwest corner.
42	4130 - Aspen	High Density Pole	27.7	50		Schedule for treatment with the adjacent Cmpt 264 when ready to final harvest. This stand was included in a commercial harvest in 1963-64 made by Ellsworth Kroon ( father of Lloyd Kroon), permit #5/63A. This was a large sale of approx 280 acres, located in parts of four Sections (21,22,27;28). Spec included no cutting within 200 feet of the creek. 8/19/2014: Budworm is feeding in stand, most is in riparian areas where trees are exposed. Minor feeding on understory spruce/fir.
43	6121 - Tamarack	High Density Pole	7.8	87		Healthy stand other than balm is falling out.
44	42221 - Natural Jack Pine, Mixed Deciduous	High Density Pole	20.8	30		Stand is a result of a prescribed burn in June of 1982, FTP#W31-49. Stand is predominantly jack pine mixed with aspen and northern red oak.
45	4123 - Red Oak	Medium Density Pole	39.7	84	51-80	Stand is predominantly red oak with a mix of jack pine and aspen. Some areas of this stand are also planted with red pine as a result of FTP#31-348. These areas had also been trenched and seeded with white pine and red oak acorns with poor to no results. Some areas are very heavy to beaked hazel.

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Gwinn Mgt. Unit

## Report 8 – Forested Stands

Compartment: 263

Year of Entry: 2016



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	4130 - Aspen	High Density Pole	78.1	17		Stand portion residing east of road was cut in the summer of 1996 (south part) and fall (north part) of 1998, TS#8-96-01 "Oak Shelterwood South Block". All oak, cherry, red and white pine were left. West of the road was part of a larger complex that is now more defineable. Heavier amounts of jack and red pine west of the road. A small portion is planted red pine.
47	42210 - Natural Red Pine	High Density Sapling	6.5	16		Stand planted to red pine via FTP#31-366 (located in Comp 262 records). Release sprayed in 2002 with glyphosate.
50	4311 - Pine, Aspen Mix	Medium Density	27.4	7		Stand harvested in 2008, TS#32-109-06-01, all oak and cherry were left. Scattered spruce and balsam pockets. Jack pine is about 3ft. Aspen is 6-7 ft. Jack Pine is filling in sparse areas. Monitor stocking of this stand. Abundance of dead standing snags post harvest.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	320 - Upland Shrub	1.9	Unspecified	Unspecified	
6	330 - Low-Density Trees	27.5	Unspecified	Unspecified	
10	320 - Upland Shrub	3.2	No	Unspecified	
11	6220 - Alder/willow	7.1	No	Unspecified	
12	6220 - Alder/willow	3.3	No	Unspecified	
20	50 - Water	6.4	Unspecified	Unspecified	
21	320 - Upland Shrub	2.9	Unspecified	Unspecified	
24	622 - Lowland Shrub	19.8	Unspecified	Unspecified	
27	330 - Low-Density Trees	4.8	Unspecified	Unspecified	
31	320 - Upland Shrub	4.2	Unspecified	Unspecified	
33	320 - Upland Shrub	9.0	No	Unspecified	Abandoned ELF ROW
38	6220 - Alder/willow	23.4	Unspecified	Unspecified	
39	320 - Upland Shrub	2.7	Unspecified	Unspecified	
48	320 - Upland Shrub	4.7	Unspecified	Unspecified	
49	310 - Herbaceous Openland	3.3	Unspecified	Unspecified	